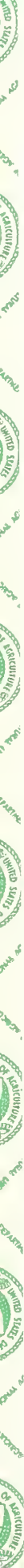


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Agricultural **L**ibraries **I**nformation **N**otes

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National
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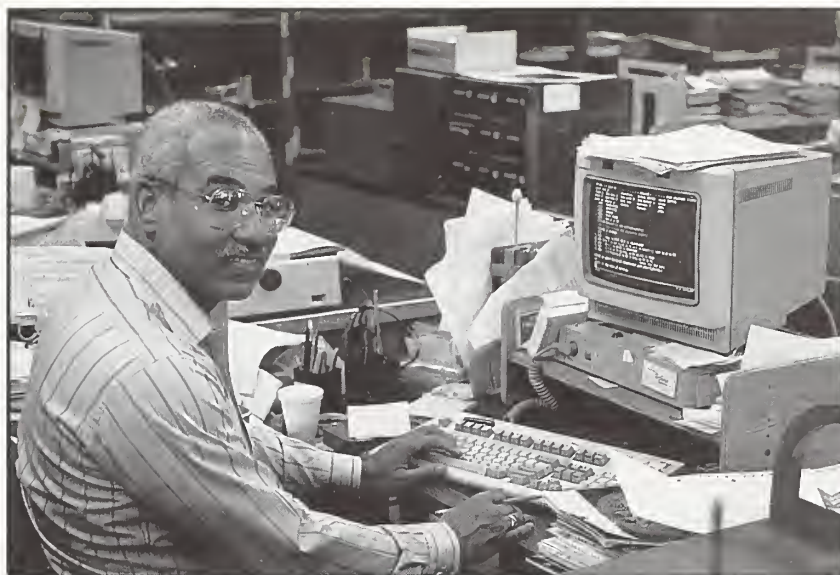


photo: J. Swab

Don Yeldell, Library Technician, Acquisitions & Serials Branch, uses the new serials system to perform acquisitions functions related to serials purchased for the Library's collection.

VTLS Serials System Implementation at NAL

by **Caroline Early**

Head, Acquisitions & Serials Branch, NAL

and **Winifred Gelenter**

Supervisor, Serials Check-in and Binding, NAL

The National Agricultural Library has been implementing a new serials subsystem in a manner that is unusual in two ways. The first unusual factor is that we migrated from one automated serials check-in system to another. Most institutions are converting from manual systems to automated systems and can choose to do their conversions systematically through a card file, letter by letter, as the work load permits. This method is referred to as a "rolling conversion." NAL did not have the luxury of a rolling conversion. Because we were working against a deadline beyond our control, our conversion can be termed a "steam roller conversion." We had to map data elements from one system to the other and hope for the best. The second unusual factor is that our new system is based on the *USMARC Format for Holdings and Locations*. This means that we not only have to *learn* this new and only

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...and more

recently approved standard and *apply* it to new titles, but we also have to *re-code* every currently received title in our collection. If you are interested in the details of our dual-lyunusual conversion, grab your copy of the holdings format and read further.

What We Have Accomplished

Getting Started. In June, 1988, a test serial database was loaded into the VTLS system, which is called ISIS (for Integrated System for Information Services) at NAL, and training on the new system began. Throughout the training period, serials staff had to continue to receive their normal number of current issues on the OCLC system. In October 1988 our machine readable serial holdings were taken off OCLC so that we could no longer use OCLC for check-in. They were loaded into ISIS and matched with bibliographic records, thus forming the ISIS serials database. On December 31, 1988, the OCLC serials system ceased to exist, but holdings continued to be displayed through the end of March 1989. When OCLC dropped local holdings displays our safety net disappeared. When we began to use ISIS for check-in, NAL's complete machine-readable database had not yet been loaded. Some of the recent tapes still required authority conversion by a vendor. About 25% of our currently received titles could not be found in ISIS for various reasons. Consequently, technicians initially spent a great deal of time alphabetizing backlogged journals that could not be checked in yet, so that they would be retrievable for lending requests. Because of downtime in the first 6 months and staff vacancies, our statistics for serial issues received fell 17% in the first year of our implementation, but were restored to normal by the next year.

Learning MARC Format, Checking in by 2 Different Methods. We have had to learn the MARC format for holdings and locations, which enables us to understand all the fields on the HM (MARC holdings) screen. Some of our staff can code 853 fields (a field with up to 21 subfields which defines the enumeration, chronology and publication pattern of a serial). An accurate 853 field is necessary before one can use the "check-in" component of the system, because the 853 field enables the system to predict what the next expected issue is. A rudimentary 853 was loaded into ISIS from OCLC for each title, taking frequency from the fixed fields, but in most cases it is not accurate or detailed enough to use without editing. We have edited and added 853's for about 65% of currently received journals, including high demand regularly published titles, and we are checking them in on the check-in screen. For the other 35%, we are adding current receipts to the 863 field by more painstaking line editing, and will code and add 853's as time permits.

Downloading Bibliographic Records. Serial acquisitions staff have begun to download OCLC bibliographic records



photo: J. Swab

Caroline Early, Head, Acquisitions and Serials Branch, and Winifred Gelenter, Supervisor, Serials Check-in and Binding, have a laugh over the manual for the USMARC Holdings Format, which was implemented along with the new serials system.

into ISIS for on-order serials, confirmed gift & exchange titles, and title changes. For these records the public catalog shows "in process" or "on order" in the call number field. These *in process/on order* records serve as temporary check-in and holdings records until the titles are cataloged, so that manual paper files are necessary only for gift & exchange titles for which we have not yet received confirmation of receipt.

Re-keying Routing Instructions. Although routing symbols were loaded into ISIS from OCLC, they did not show up on the check-in screens. Technicians had to call up an additional screen to find out whether the title went to the Indexing Branch, the Periodicals Reading Room, etc. We have had to re-key all routings into the 993 field, one which is displayed on both the HM and the check-in screens. (9xx fields contain local information and are not in the USMARC format).

Adapting the Claim Letter. The claim letter devised by VTLS has been edited and adapted for our purposes by an NAL programmer.

Linking Unmatched Records. In October 1988 when OCLC holdings records were loaded and linked to bibliographic records, approximately 9,000 records did not link for various reasons. A library-wide effort linked most of these records one by one, by finding clues in the holdings about which title it matched, finding the record of the title, and issuing a linking command.

What Remains to be Done

Bibliographic Retrospective Conversion. There are 800-1500 titles which do not have ISIS records and are being checked-in manually on printouts or cards. Some were cataloged on OCLC but do not appear in ISIS, and some



photo: J. Swab

The group of library technicians responsible for serials check-in, claiming of missing issues, and other functions related to serials processing (except cataloging) gather around one terminal to discuss problems. L-R, back row: Vincent Parker, Connie Ames, and Sandra Boone; middle row: Linda Showers, Win Gelenter (supervisory librarian), Jane McLeod, and Lena Garner; front: Dreama Black, and Nancy Raff at her terminal.

were never cataloged in machine-readable form. Those that are in OCLC are referred to the Cataloging Branch so that the records can be edited and downloaded. However, it is hard to give recataloging the same priority as new cataloging.

Reinstating Lapsed Titles. We estimate that approximately 7,000 serial titles have lapsed, resulting from not using the claiming function of OCLC serials because of the expense. They are most likely titles that we received free or by exchange at one time, but as any serials librarian can attest, these "free" methods of procurement carry high maintenance costs in order to keep the supply lines open. USDA has an automated mailing list which is used to send out exchange titles, and there were system reliability problems in the early 1980's. For whatever reasons the lapses have occurred, since our major activity is checking in 120,000 new issues a year, until we get automatic claiming in place we only notice lapsed titles when someone inquires about them. We cannot go through our on-line records one by one because we share the database with all the

monographs in the Library. The lapsed title issue is a behemoth of a problem, involving staff at many stages. Searching is required to determine if there is a title change involved, or if the title ceased. Selection is involved to decide if the title is worth reinstating. Gift and Exchange staff need to determine if, once a gift, it can still be received free, or if, once an exchange, it has lapsed because of USDA mailing problems. These inquiries take searching, letter writing and follow-up.

Holdings Retrospective Conversion. Our machine-readable holdings records go back only as far as 1973. The Serials Unit had begun a retrospective conversion project to convert pre-1973 holdings from the manual file to OCLC, but completed only a few hundred high demand titles.

Verifying and Correcting Acquisitions Status. When serials were loaded into ISIS, they were all automatically assigned the acquisitions status of "currently received." Users of the catalog are being misled by the "currently

received" status of lapsed or cancelled titles. As we check in issues, we are changing the "Acquisition Status" if incorrect, but this is a random process. Lapsed titles which do not come to the notice of the technicians will continue to read "currently received."

Copy 99's. On OCLC, any title which was cancelled lost its copy number. When OCLC tapes were loaded, any copy which did not have a copy number was labelled "Copy 99." We chose this number because we had to choose a numeric value and wanted cancelled titles to appear last in the holdings display.

Copy 98's. Supplements were checked in on OCLC on holdings with alphanumeric identifiers, e.g. "SUP1." Since ISIS cannot handle alpha characters in its copy numbers, we had to choose either blank or numeric equivalents. We chose "Copy 98" so they would file after regular issues of the title but before cancelled copies. In the MARC holdings format upon which ISIS is based, supplement holdings are recorded by describing their enumeration and chronology in an 854 field and listing issues received in an 864 field. We are using 854 and 864 fields for supplements to any new titles, but we continue to use copy 98 if it was loaded into ISIS that way. Converting copy 98 to 854 and 864 fields needs to be done to reduce public confusion but is not high priority compared to other needed improvements.

Cleaning up Public Holdings Displays. Holdings on OCLC serial records resided in the CRHD (current holdings) field and the RTHD (retrospective holdings) field. Retrospective holdings in the RTHD generally covered the years between 1973 and 1987. The holdings on OCLC were coded, and when they were loaded into ISIS, CRHD fields were mapped to the 863 field, so RTHD fields had to be mapped to the 866 field. However, because the 866 is a free text, non-coded field, these holdings can look odd on the patron's screen. For example, missing issues are listed in brackets behind a subfield "m" at the end of the field. It takes a lot of re-keying to modify the contents of this field and make it user friendly.

Claiming. Achieving automatic claiming is a complex and many-faceted project involving the following components: an accurate 853 field, utilization of the check-in screen with correct issue information and correct expected date of receipt, the addition of a 991 field, patron file containing vendor addresses and library addresses, and a claim letter generated automatically. These will be examined individually below. We estimate that automatic claiming can be achieved for approximately 75% of our titles. The remaining 25% cannot be claimed because they are too irregular to satisfy the above criteria.

Accurate 853. Every title we check in should have an accurate 853 field which details the title's enumeration, chronology and publication pattern. Approximately 65% of our titles have this field in place. Coding 853's will take approximately one more year to complete.

Check-in Screen Utilization. The check-in screen predicts the next issue to be received, and can be set up as soon as the 853 field is in place. It takes three minutes to set up the screen. So once the 853 is accurate, it will take an additional 3 minutes initially to set up check-in. Once check-in is established, automatic prediction occurs, and it is this prediction which makes check-in fast. Otherwise, tedious updating is required. Automatic prediction causes the system to remind us to claim any issue which is not received by its expected time. If the issue is claimed rather than checked in on the screen, a letter is produced claiming the correct issue.

991 Field. The 991, or agent field, has to be input for each title and each copy of every title we wish to claim. This field is designed to contain vendor's name, vendor's ID number, the vendor's title number, our order number, invoice number (which changes each year), invoice date, and order date. The vendor ID number links the record to the patron file of the circulation system where the vendor's address is stored. In this manner claim letters are designed to be issued, addressed and sent out with circulation reminders. We have completed this process for our purchased titles. In order to complete 991's for gift and exchange titles, we would have to add 7,000 addresses to the circulation systems' patron file and add their system-supplied vendor ID numbers to the 991 field on the correct serial record.

Vendor Address Loading. As mentioned before, claims are sent to the vendors whose names and addresses are stored in the patron file of the circulation system. Our major subscription agents are few, but there are 7,000 gift and exchange addresses. We need to load the machine-readable USDA mailing list into the ISIS patron file by some means.

Conclusion. While few who read this account will envy our hurried conversion, we have the consolation that we are now recording our holdings in a standard format. In addition, most serials librarians are quaking at the thought of implementing the holdings format, while we have the satisfaction of familiarity with it. We will gladly try to answer any further questions about the project or offer encouragement about format implementation. We hope that someone will establish a database of publication patterns and make it universally available by the time most of you have to convert your holdings!



ISIS and the New VTLS Serials System

The new VTLS Serials System described in the lead article of this month's *ALIN* is one of the modules in the National Agricultural Library's integrated system called ISIS (for Integrated System for Information Services). Other modules in the system include the online catalog, an indexing system, a circulation system, etc.

ISIS Integrated
System for
Information
Services



National Agricultural Text Digitizing Project Update

by Judith A. Zidar, Information Systems Division, NAL

Agent Orange:

The Agent Orange CD-ROM was distributed to participating land-grant libraries October 19, 1990, by Iowa State University. This pilot disk runs under Windows Personal Librarian (WPL) from Personal Library Software (PLS). Working in a Windows environment will be a new experience for some of the libraries, and we are anxious to hear what they think of it. Evaluation responses should be sent to Iowa even though the mid-December deadline is past.

Retrieval Software Evaluation Process:

The process of selecting a single retrieval software package to be used with future NATDP CD-ROMs is nearing completion. Some work remains to be done, but an overview of the process to date seems in order.

The process began with the first NATDP CD-ROM, "Aquaculture I", when the participating land-grant libraries were asked to evaluate both the database contents and the retrieval software. Three years ago, there were only a few retrieval packages available for use with CD-ROM that could handle both text and graphics. Now that CD-ROM is in widespread use, there are many more choices. Therefore, it was decided that more of these packages needed to be looked at before a final decision about software was made.

In January 1990, a software evaluation team was selected. The team is chaired by Robert Butler from NAL, and consists of Katie Clark, Texas A&M; Michael Cramer, VPI; Albert Joy, Univ. of Vermont; and Judi Zidar, NAL. The

NAL's Fiscal Year 1991 Budget

The National Agricultural Library has received \$16,798,000 in the FY 1991 Appropriation Bill. This figure represents a 14.46 percent increase over last year. NAL received increases for library materials, capital development, networking, and for the National Center for Agricultural Law Research and Information at the University of Arkansas, which is partially supported by a grant from NAL.

In addition, NAL received funds to help support a cooperative biotechnology initiative with Iowa State University and to offset salary increases for NAL employees in FY 1989 and FY 1991. NAL absorbed the salary increase for employees in FY 1990.

—Paul Bennett

USDA Feed Composition Data Bank Discontinued

On November 1, 1990, activities of the Feed Composition Data Bank (FCDB), located at the National Agricultural Library (NAL), were indefinitely suspended. FCDB contains nutrient data on more than 23,000 feeds and feed ingredients, and has been located at NAL since 1986.

Because of funding constraints, NAL is unable to provide adequate resources to support FCDB in the foreseeable future. "We deeply regret having to take such drastic measures," said Gary McCone, head of NAL's Database Administration Branch, "But we have reached a point where it is not possible to produce a reliable product with the limited resources we have."

NAL plans to continue to maintain the related International Feed Number and International Feed Nomenclature files pending discussions with the International Network of Feed Information Centres (INFIC) about alternatives.

NAL will provide a machine-readable copy of FCDB, its associated computer programs, and system documentation to anyone interested in taking over the operation of the database. Contact Gary McCone at (301) 344-3813 for details.

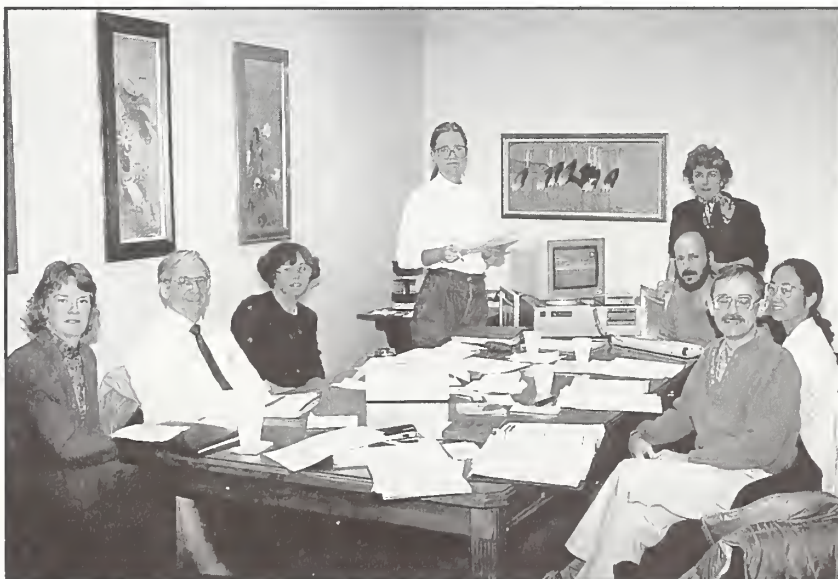


photo: J. Swab

The NATDP Software Evaluation Team (clockwise from left) Pamela Andre, NAL; Robert Butler, NAL; Judi Zidar, NAL; Katie Clark, Texas A&M; Pauline Zoellick, consultant; Albert Joy, UVt; Hong Rong Lin, NAL; and Michael Cramer, VPI.

team's first task was to develop a set of criteria by which retrieval packages could be judged. This *evaluation tool* included "must do" items, such as (a) runs on a microcomputer under MS-DOS 3.x and 4.x; (b) does Boolean searching; (c) handles both full text and bibliographic data; (d) handles images; (e) has been used previously with CD-ROM. The *tool* also included a "wish list" of items, such as hypertext searching and relevancy ranking which, while not required, would add to the value of the package. In addition, the team was looking for a package that makes the best use of the power of today's computers, would not be out of date in a year or two, and, especially, would be relatively easy to learn and use.

The evaluation tool and a list of 12 candidate software packages were sent to Pauline Zoellick, a consultant who is an expert on information and image retrieval. It would be her job to evaluate all the software and come up with three packages that might best fill our needs. She created from our tool a checklist of system functionality, and included some extra items that she felt should be evaluated. This checklist she later used to evaluate and rate each package. Meanwhile, Mike Cramer and Pauline began contacting the software vendors, requesting a copy of the software with sample databases and CD-ROMs for review.

The 12 software packages originally considered were as follows:

SOFTWARE	VENDOR
CD Answer	Dataware Technologies
Ful/Text	Fulcrum (Canada)
Innerview	TMS
KAware2	Knowledge Access
KRS	Knowledge Set
Personal Librarian	Personal Library Software
Quantum Leap	Quantum Access
Reference Book	Reference Technology
Re:Search	Retrieval Technology
ROMWARE	Nimbus Information Systems
Search Express	Executive Technologies
TextWare	TextWare Corporation

Every package had unique strengths, so the process of evaluation and ranking was slow and tedious. The question, "What would best meet the needs of the NATDP?" did not have an easy answer, and, as many of the NATDP land-grant evaluators had pointed out, it might not be possible for a powerful, progressive full-text retrieval package to be easy and intuitive to use. However, after many hours of work, Pauline Zoellick was satisfied that she had come up with three excellent choices.

The three "best-fit" software packages were KAware2, Personal Librarian (for Windows), and Reference Book. The vendors for these packages were invited to make a presentation to the software evaluation team during a meeting at NAL October 15-19. Vendors also supplied information about their companies and some customer references.

The team and the consultant convened on October 15 and began individual, hands-on reviews of the software, using WIN 386 microcomputers. Then each vendor spent almost

a full day demonstrating the product and discussing such topics as pricing policies, customer support, and vendor reliability. On day 5 of the meeting, the group came up with a recommendation, which was delivered to Nancy Eaton of Iowa State University (NATDP Director) and Pamela Andre of NAL (NATDP Principal Investigator).

The team's recommendation will not be made public at this time, since the final selection will be made only after the last NATDP pilot disk (Agent Orange) has been evaluated by the land-grant sites. All three products were well received by the group. Each had its strong points. KAware2 runs well on almost any computer that uses DOS and has a graphics card, and its image handling software is versatile and easy to use. Windows Personal Librarian is a powerful implementation of the Windows environment, and it has advanced features such as relevance ranking. Reference Book allows the database developer to design the user interface screens and function keys, so the software is molded to the database, instead of the other way around. All three perform timely proximity searches, so necessary for full-text retrieval, and also field searching, necessary for bibliographic data.

In the final analysis, the group had to look first at the needs of NATDP, and then determine which package came closest to meeting all those needs. It was also important that the package be a progressive one which could take us some years into the future. Thanks to the exhaustive efforts of all those involved in this process, we believe these goals will be met.

In Memoriam Elizabeth Woodburn Robertson

Elizabeth Woodburn, a renowned specialist book dealer in horticulture and agriculture for over 40 years, and wife of Keith Robertson, noted writer of children's books and other works, died suddenly at home on November 18, 1990, in Hopewell, New Jersey. Professionally active in many organizations and the recipient of several prestigious awards, Woodburn was a founding member of the Council on Botanical and Horticultural Libraries (CBHL). She was also a member of the Associates of the National Agricultural Library and was a speaker at several symposia sponsored by the Library and the Associates. Librarians, members of these organizations, and many others will remember her for her dedicated assistance in helping develop appropriate collections throughout the country dealing with the history and preservation of U.S. horticultural and agricultural literature.

Combined Federal Campaign 1991

The final numbers have been totaled and NAL has contributed \$14,465.70 with 118 staff participating in the 1991 Combined Federal Campaign (CFC) completed in the final quarter of 1990. This translates to 87% of the \$16,600 goal with 61% of the staff participating. While we did not reach our 1991 goal, we did exceed the 1990 goal by 22%. The per capita gift increased from \$83.35 to \$120.43.

In speaking of the achievements of this campaign, NAL Director Joseph H. Howard said to the NAL staff, "On behalf of the Combined Federal Campaign, thank you for your generosity and kindness. You can truly be proud of your accomplishment. My special thanks to the key workers who made the extra effort by handling the solicitation and paper work in a way that made a difference."

The Combined Federal Campaign is the annual drive to provide funds from personal donations to charitable, public service, and selected non-profit organizations, and through them to needy members of society. It corresponds with "United Way" campaigns in our communities.

Key Workers for NAL's 1991 Combined Federal Campaign were Robyn Frank (Coordinator), Cathy Beane, Janet Berkson, Joanne Bulanowski, Bill Feidt, Alan Fusonie, Sherry Gibson, Henry Gilbert, Celine Gilheany, Gary Johnson, Kurt Kuss, Mary Lassanyi, Jayne MacLean, Gary McCone, Cheryl Moore, Arlene Sperber, Janet Strickling, Tanya Tanner, Jackie VanHildebrandt, and Don Yeldell.

— Robyn Frank, 1991 CFC Coordinator

NAL To Host First International Technology Workshop

The National Agricultural Library will host the first New Technology Workshop being sponsored by the International Association of Agricultural Information Specialists (known as IAALD) at the Library in Beltsville on September 16-20, 1991.

IAALD is a 700-member body of agricultural information specialists representing over 80 countries. It was established in 1955 with the objective of promoting and advancing public education and information transfer in agricultural development and production.

The workshop will feature in-depth lectures and demonstrations on new information management technologies. Workshop organizers said there will be opportunities for hands-on use of the technologies with guidance by internationally recognized experts. The registration fee for the workshop, which will include four lunches, is \$490.00.

"Taking full advantage of recent developments in computer technology is vitally important to information specialists everywhere," said NAL Director Joseph Howard, who was recently elected to a five-year term as IAALD President. "If it is used wisely, the technology will allow the

rapid spread of knowledge in the agricultural sciences."

Among topics scheduled to be covered in the workshop are telecommunications and networking, multimedia CD-ROM development, scanning and optical character recognition, hypertext and expert system applications, digital image transmission, informatics (simulations and forecasting), and machine-readable storage and access for photographs.

For further information on the IAALD New Technology Workshop contact:

Gary K. McCone
Information Systems Division
National Agricultural Library
10301 Baltimore Boulevard
Beltsville, Maryland 20705-2351

Telephone: (301) 344-3813

The IAALD New Technology Workshop is the first in a series of workshops to be held worldwide in the next several years. Future workshops will focus on library collection development and document delivery, in addition to new technology.

— Brian Norris

SIGLIT Meets at NAL

On December 5, members of SIGLIT, the Special Interest Group on Library and Information Technology, met at NAL. Founded in 1987, SIGLIT is an active subgroup of SIGCAT, the Special Interest Group on CD-ROM Application Technology. SIGLIT provides a forum for Washington-area information professionals to share their experiences with CD-ROM technology.

Chairperson Susan David of the Library of Congress Congressional Research Service opened the meeting and asked the attendees to introduce themselves. Janet Wright, NAL/DCRC, reported on the SIGLIT CD-ROM documentation exchange that she has initiated.

Martha Feldman, NAL/ISD, who had organized the meeting, welcomed the group to NAL and outlined the agenda. The program was a full one, including the following presentations by NAL staff:

- Susan Chapman discussed public access to CD-ROM at NAL, including workstations and titles available; the role of the reference librarian; written policies on patron use; and NAL's experience with a user satisfaction questionnaire.
- Martha Feldman demonstrated the CD-ROM Menu System, and discussed how she and Chris Stephens, a University of Maryland student, developed it.
- Pamela Mason reported on her experience to date with creating a multimedia CD-ROM on ornamental horticulture in cooperation with the University of Florida Institute of Food and Agricultural Science and Michigan State University Cooperative Extension Service. Pamela also demonstrated the bird calls and songs on the audio portion of the *Extension Reference Library* CD-ROM.
- Judy Zidar spoke on her work with the National Agricultural Text Digitizing Program (NATDP). A consortium of NAL and 44 land-grant university

libraries, the NATDP has produced four CD-ROMs to date: *Aquaculture 1; Food, Agriculture, and Science; Acid Rain; and Agent Orange*. Two additional titles are in progress.

- Dan Starr reported briefly on the status of the NAL—North Carolina State University cooperative agreement for image transmission over INTERNET.

The program concluded with demonstrations of the NATDP and tours of the public service areas of the Library. Members then adjourned to an excellent luncheon at a nearby Korean restaurant.

—Susan Chapman



photos: J. Swab

Martha Feldman of NAL's Information Systems Division, discusses the CD-ROM Menu System at the SIGLIT meeting.



New Publications of Note

Guide to Subject Indexing Available

In December 1990 the National Agricultural Library published *AGRICOLA—Guide to Subject Indexing*, written by Martha W. Hood, NAL's Thesaurus Coordinator and a member of NAL's Indexing Branch Staff.

Describing the 21-page publication, Hood said, "The

Guide outlines the processes and policies to which NAL indexers adhere in subject indexing. It covers basic principles as well as standards and practices for applying AGRICOLA Subject Category Codes and CAB Thesaurus descriptors. The *Guide* sometimes refers to, and is to be used in conjunction with, the continuing series *National Agricultural Library Notes to Indexers*. It will help persons indexing materials for the Library's AGRICOLA database, and it will be a valuable reference tool for persons searching the database to obtain information."

NAL's AGRICOLA database contains bibliographic records for nearly three million articles and books on agriculture and related subjects. About 85% of the database consists of indexing records for journal articles and parts of monographs, and about 15% consists of cataloging records for books, theses, patents, computer software, audiovisual materials, technical reports, maps, manuscripts, and microforms. The Indexing Branch and its cooperators currently index over 2,000 journal titles, issue by issue, and 500 monographs per year for AGRICOLA (*AGRICultural On-Line Access*).

Hood said, "The *Guide* also includes a form for AGRICOLA users to propose additions and changes to the CAB Thesaurus and guidelines for submitting the form to NAL's Indexing Branch."

Copies of the guide may be obtained by sending a self-addressed label with a request to:

National Agricultural Library
Indexing Branch, Room 011
10301 Baltimore Boulevard
Beltsville, MD 20705-2351





**Animal
Welfare**

Animal Welfare Information Center Announces Training Program

The Animal Welfare Information Center (AWIC) of the National Agricultural Library (NAL) has announced inception of a program to train scientists using animals in their research to find literature relevant to animal care and use and related regulations. The program begins with a two-day training course to be held May 23-24, 1991. The course will instruct persons on how to utilize AWIC and NAL resources effectively to obtain critical information on animal welfare.

The 1985 amendments to the Animal Welfare Act specify that investigators must provide documentation to their Institutional Animal Care and Use Committees that thorough literature searches were conducted that provide information on reducing numbers, refining techniques, or replacing animals in their proposed research protocols. AWIC has been mandated as a contact and accessory to providing information on alternatives.

The specific objectives of the course will be to provide:

- * a comprehensive introduction to NAL and AWIC
- * instruction on the use of existing information networks
- * specifics on information retrieval from AGRICOLA and multiple databases
- * an introduction to other technologies that assist with information retrieval
- * resource materials that can be utilized at home and at the office

The course is targeted for persons charged with providing information on alternatives or other animal welfare topics to principal investigators or persons in public or private research institutions, government agencies, and professional associations. Persons electing to take the course should possess computer expertise and be knowledgeable in bibliographic database searching. The primary intent is to enhance existing skills and knowledge through teaching specific retrieval techniques for animal welfare literature. The course will not teach basic database search skills.

Persons who lack database search skills may be accepted by enrolling in the National Agricultural Library's AGRICOLA training class, which is held prior to the AWIC course, on May 20-22. For more information on the AGRICOLA class please call (301) 344-1204.

Space in the first AWIC course is limited and be

open to registrants on a first come first serve basis. Additional courses will be offered in the future. For enrollment or more information please contact AWIC staff at (301) 344-3212.

As a part of the training program AWIC staff can make arrangements to teach the course at research facilities around the nation. For more information on making such arrangements, contact Jean Larson, AWIC Coordinator, at (301) 344-1215.

*Animal Welfare Information Center
National Agricultural Library, Room 205
10301 Baltimore Boulevard
Beltsville, MD 20705-2351*

—Janice Swanson



**Food &
Nutrition**

Barry Visits FNIC

Effi Barry visited the Food and Nutrition Information Center (FNIC) in October to research nutrition education materials for teachers at Park View Elementary School in Northwest Washington to use in their classes. Park View Elementary is participating in the "Adopt-a-School" program administered by Mrs. Barry at Children's National Medical Center.

A former home economics teacher, Mrs. Barry was very impressed with FNIC's collection of nutrition education

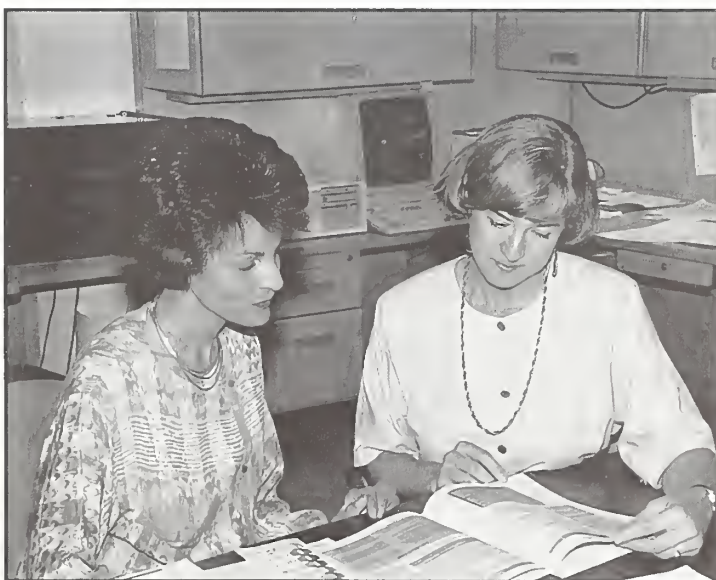


photo: D. Starr
FNIC's Jo Arpee (right), a graduate student in nutrition at the University of Maryland, worked with Mrs. Effi Barry to facilitate her research and to acquaint her with FNIC's services and resources.

curricula. "I'm really in my element here," she said as she reviewed nutrition education kits and previewed videos.

In a letter following her visit, Mrs. Barry thanked the FNIC staff and said, "The nutrition education curricula that I obtained for the circulating library, 'Nutrition Comes Alive,' were warmly received by the faculty of our 'Adopt-a-School' partnership school. We are all looking forward to a very exciting year in working with the students utilizing the very innovative nutrition education series.

—Jo Arpee



Staff Update

Nutritionists Arpee and Roberts Work with FNIC



photo: J. Swab

Jo Arpee

Joanna Arpee is a part-time University of Maryland research assistant working with the Food and Nutrition Information Center. She is a first year graduate student pursuing a masters of science degree in nutrition and completing courses to meet the requirements to become a registered dietitian.

Jo is working as a reference nutritionist with FNIC and is updating the "Common Sense Nutrition"

Pathfinder which will be reissued as part of the new *Nutri-Topics* series.

Before beginning graduate school and work at NAL, Jo worked for the American Institute for Cancer Research. She was an information coordinator and specialist, and assistant director of development. It was there that she developed a love for working with the public and decided that she wanted to study nutrition. Her introduction to the world of nonprofits was impressive as was the commitment she observed of all those working with them.

Jo lives in Mount Ranier with her husband and enjoys healthy ethnic cooking. She is a volunteer with Heart of the Matter, a nonprofit that provides assistance to orphanages in Central America.

Cindy Roberts is a part-time graduate assistant working with the Food and Nutrition Information Center (FNIC). She is a University of Maryland graduate student who will complete her masters of science degree in nutrition in August, 1991. Her research is on cholesterol levels as it relates to waist to hip ratios. She is working with the Preventative Cardiology Department at Johns Hopkins University. For FNIC she is updating "Adolescent Pregnancy," a *Pathfinder*

which will be reissued as part of the new *Nutri-Topics* series. She is also working as a part-time reference nutritionist.

Cindy has worked with USDA's Human Nutrition Information Service as a research assistant in the Dietary Appraisal Research Branch. She has also taught undergraduate advanced nutrition as a teaching assistant at the University of Maryland.

An avid traveler, Cindy recently returned from an adventurous trip to the British Isles, has lived in Taiwan where she taught English and learned to speak Chinese, and worked in Guatemala as part of a nutrition research team. Her career goals include working in international nutrition.

—Sandy Facinoli



photo: J. Swab

Cindy Roberts

Winifred Gelenter

One of the co-authors of this month's lead article, Winifred Gelenter is responsible for serials purchasing and is the supervisor of serials check-in and binding in NAL's Acquisitions and Serials Branch. She joined the Library staff in March 1983 as a selection librarian in Acquisitions, assuming responsibility for serials purchasing soon thereafter. In the following years she became supervisor of all purchasing, and began her present duties when the Serials and Acquisitions sections merged in 1986. Her unit consists of 10 full-time persons and some part-time student aids.

Before coming to the National Agricultural Library, Ms. Gelenter was the project leader, supervising binding operations, on a TeleSec contract with the National Library of Medicine. She also worked at the National Archives as an archives technician and at the Veterans Administration as a librarian trainee before obtaining her Library degree. She has also had experience as an elementary school teacher in New York and Montgomery County, Maryland. Ms. Gelenter earned her M.L.S. at the University of Maryland, her M.S.Ed. from SUNY New Paltz (Long Island campus), and her B.S. in agricultural economics from Cornell Univer-



photo: J. Swab

Win Gelenter

sity, College of Agriculture and Life Sciences.

Ms. Gelenter is married to Robert Gelenter, an attorney, and they have two adult children, Andrea and David. Among her outside interests are hiking and bird-watching. When asked about her experiences at NAL, she said, "As a librarian, working at NAL has been a wonderful experience—it has required that I keep up with the 'state-of-the-art,' and enhanced my professional growth. Even

—Joseph N. Swab

Regular services of the center will encompass reference service, user needs assessments, ensuring that plant data such as that for protein and nucleic acid sequences with their functions, cultivars or strains, and seed bank information are entered into the appropriate databases, and generation of publications.

Dr. McCarthy came to NAL from the Northern Regional Research Center of the Agricultural Research Service in Peoria, Illinois, where for the last six years she was a post-doctoral research associate working in the area of plant molecular biology especially as it relates to cellular and subcellular development as well as membrane receptor structure and function. Her primary interests concerned photosynthetic membrane proteins and their genetic expression as related to environmental conditions, particularly light quality and intensity, and, as a separate project, the function of these proteins.

(Continued, see McCarthy, p. 23, col. 2)



photo: J. Swab

Susan McCarthy

McCarthy Heads NAL Plant Genome Center

On December 3, 1990, Dr. Susan A. McCarthy joined the NAL staff as the Coordinator of the Plant Genome Data and Information Center. The newly established center is funded through the USDA, Agricultural Research Service (ARS), which has established a Plant Genome Project encompassing ARS scientific research, competitive grants to academic and research institutions, and NAL information collection and dissemination. Among the responsibilities and the early concentration of efforts of the center are to evaluate and update the NAL collection with regard to plant genome and related issues, to improve the AGRICOLA database with respect to plant genome materials, to manage several aspects of databases related to plant genome, and to bring all of these elements together in order to provide information services. The center will issue a newsletter concerning project accomplishments and providing information about all aspects of plant genome concerns.

The center will soon be hiring a database manager to work with NAL's Information Systems Division which will be creating or modifying software for a database of chromosome maps modelled after the Johns Hopkins Genome Data Base. The center will also be interfacing with the National Library of Medicine and GenBank for the nucleotide sequence database. At present only about 10% of GenBank is botanical data, the remainder being bacterial, viral, fungal, animal, and human, with the major part of it related to the microorganisms.

Richardson Helps Set-up Plant Genome Center

On December 31, 1990, Deborah Y. Richardson joined the Reference and User Services Branch as a Technical Information Specialist, Biological Sciences. She is helping to set-up and operate the Plant Genome Data and Information Center, coordinated by Susan McCarthy.

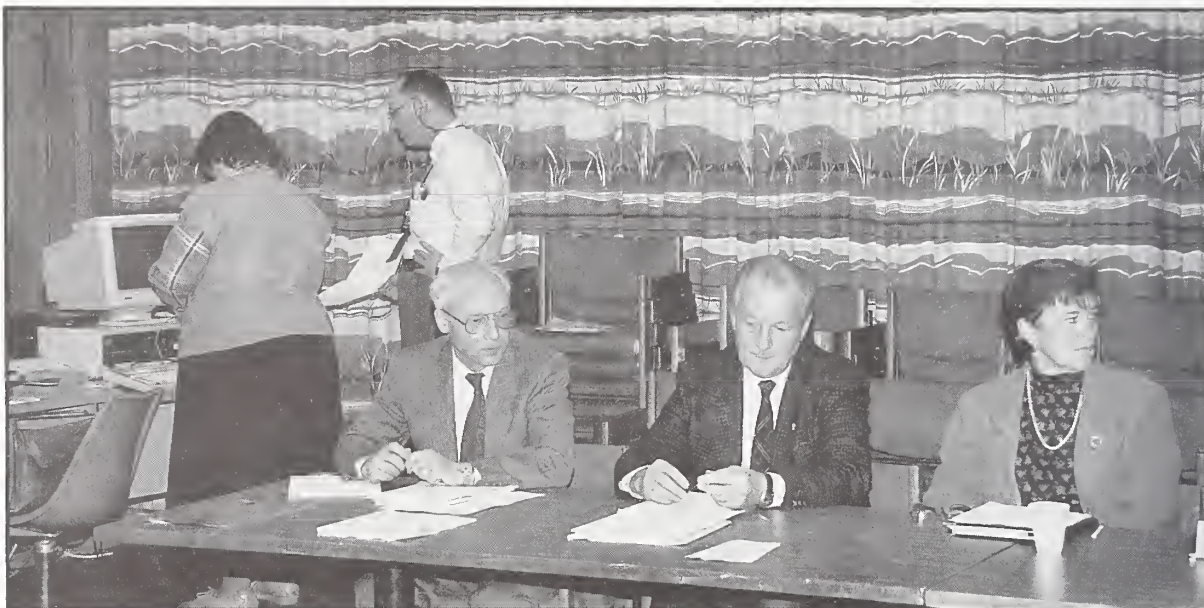
With a B.S. and M.S. in zoology and research in cytogenetics from Howard University, Ms. Richardson comes to NAL

(Continued, see Richardson, p. 23, col. 2.)



photo: J. Swab

Deborah Richardson



photos: J. Swab

Participants in the thesaurus discussion included (L-R) Torben Friis, Eberhard Stage, and Shirley Edwards; in the background Sue Leatherman and Paul Hosman of NAL prepare computer demonstrations for projection on a large screen.

Unified Agricultural Thesaurus Discussed

by Sarah E. Thomas

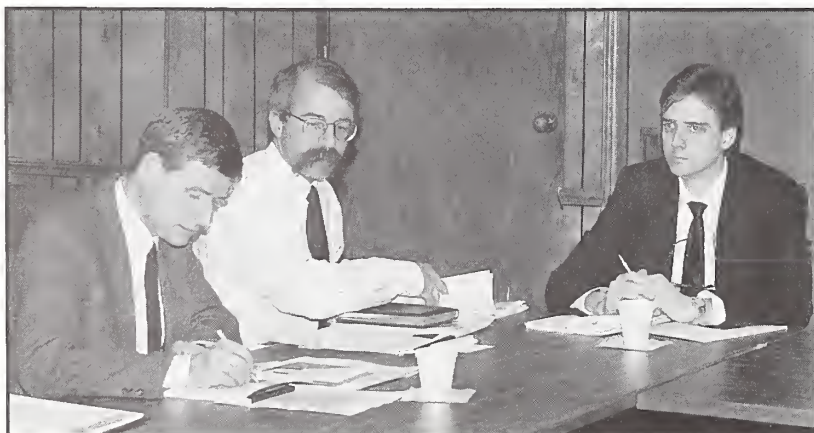
Associate Director for Technical Services, NAL

On December 11, 1990, an international group of information specialists convened at the National Agricultural Library in Beltsville, Maryland, to discuss the creation of a unified agricultural thesaurus (UAT) and gateway to enhance access to agricultural databases. The discussion continued work begun in October 1989 when the same group of experts recommended that a study be conducted to determine the feasibility of a UAT. At NAL, participants came from the three major agricultural database producers, NAL (AGRICOLA), FAO (AGRIS), and CABI (CAB ABSTRACTS), and included several other interested parties representing the Commission of the European Com-

munities (CEC), the Centre Technique de Cooperation Agricole et Rurale (CTA), BIOSIS, the U.S. Library of Congress, PUDOC, the Ministry of Agriculture, Fisheries, and Food of the United Kingdom, the library of the Agricultural University in Wageningen, Netherlands, and the Zentralstelle für Agrardokumentation und Information (ZADI).

The purpose of the meeting was to hear the preliminary report of the consultants who had conducted the feasibility study. Consulting on the project were Torben Friis, Datacentralen, Denmark; John Goodier, Romney House Library, Ministry of Environment, UK; and Eberhard Stage, ZADI, Germany. During the summer and fall of 1990, Friis and Goodier disseminated questionnaires to organizations with a stake in the thesaurus project, gathering information about the need for and use of agricultural thesauri. As a follow-up, they travelled to NAL, to CABI headquarters in Wallingford, England, to the Food and Agricultural Organization in Rome, and to PUDOC in the Netherlands to conduct interviews. Friis and Goodier analyzed the responses and information derived from the interview, and in concert with Stage, developed a specification of requirements for the thesaurus and a thesaurus management system.

Based on the responses from the questionnaires, the interviews, and their own analysis, the consultants concluded that a unified agricultural thesaurus was feasible. Drawing on terms from *AGROVOC*, FAO's multilingual thesaurus, and the *CAB Thesaurus*, they found substantial overlap and congruity in a number of areas. Among their recommendations was the development of a classified thesaurus that would be used as the structure to support vocabulary to be incorporated from other agricultural thesauri. Creation and maintenance of the thesaurus would be



(L-R) Pieter Wiersma, Jan van der Burg, and Robert Howey.



Martha Hood and Joseph Howard; in the background Lori Starr of NAL makes a record of the discussion on a lap-top computer.



Eckehard König

As a result of the December meeting, the participants plan to move ahead with the consideration of a unified agricultural thesaurus. In spring 1991, key players will meet to explore further the governance structure, the development of a classification scheme, the timeframe for development, and the budget required to

facilitated by a sophisticated thesaurus management system that would allow remote contribution of terms, generation of microthesauri, database-specific profiles, and representation of terms in multiple Roman-language alphabets.

After reviewing their findings with the participants, the consultants were charged with surveying the state of off-the-shelf thesaurus management systems to determine their appropriateness for the UAT. Their final report will include detailed cost-benefit analysis and recommendations for governance. Following agreement on the major points, the group will seek external funding to support the development of a unified agricultural thesaurus and management system.

A related objective of the project is the design of an intelligent gateway to provide enhanced access to AGRICOLA, AGRIS, and CAB ABSTRACTS. ZADI has proposed to develop such a gateway. Dr. Eckehard König, ZADI, reported on ZADI's proposal. ZADI would link the three major databases through an expert system which would have a knowledge base of *AGROVOC* and the *CAB Thesaurus*. The knowledge base would clarify spelling, scope, and usage differences in the databases.



Stella Dextre Clarke; Tim Cullen, and Pam Andre.

support these activities. There are many details left to be resolved, but there are encouraging signs that access to agricultural information will be improved through the development of a unified agricultural thesaurus.

(See box on the following page for the list of participants in this meeting.)

(Article reprinted from the *Quarterly Bulletin of IAALD*, Vol. 35, No. 4, 1990.)



Elaine Inouye, Monique Bonnichon, Sarah Thomas, Edwin Pilchard, and John Goodier.



Pam Andre, Torben Friis, and John Goodier discuss the feasibility study prepared for the meeting on the Unified Agricultural Thesaurus. photo: J. Swab

NAL and Egyptian National Agricultural Library Cooperate

by Dr. Sarah Thomas
Associate Director for Technical
Services, NAL

Imagine being able to plan for the creation of a national agricultural library from the ground up! That's what Engineer Ragaa Abdel-Hady, Director General of the Egyptian National Agricultural Library

Participants in the Thesaurus Discussion

Pamela Q. J. Andre, Associate Director for Automation, NAL

Monique Bonnichon, Food and Agricultural Organization of the United Nations, FAO

Tim Cullen, Ministry of Agriculture, Fisheries, and Food, United Kingdom

Stella Dextre Clarke, CAB International (CABI)

Shirley Edwards, Head, Indexing Branch, NAL

Torben Friis, Datacentralen, Denmark

John Goodier, Ministry of Environment, United Kingdom

Martha Hood, Thesaurus Coordinator, Indexing Branch, NAL

Joseph H. Howard, Director, NAL

Robert Howey, BIOSIS

A. Elaine Inouye, U. S. Library of Congress

Eckehard König, Zentralstelle für Agrardokumentation und Information (ZADI), Germany

Edwin Pilchard, APHIS, USDA

Eberhard Stage, Zentralstelle für Agrardokumentation und Information (ZADI), Germany

Sarah Thomas, Associate Director for Technical Services, NAL

Jan van der Burg, PUOC, Netherlands, also representing Commission of the European Communities (CEC), and Centre Technique de Cooperation Agricole et Rurale (CTA)

Pieter Wiersma, Library, Agricultural University, Wageningen, Netherlands

Lori Starr, Indexing Branch, NAL, recorded minutes.



photos: S. Thomas

(Above) The EMCIP Building in Cairo, Egypt, which houses the Egyptian National Agricultural Library and Egyptian agricultural research administrators and staff.
(Below) The main entrance to the building.



(ENAL) in Cairo is doing. Eng. Abdel-Hady, former Deputy Director of the Egyptian Documentation and Information Center for Agriculture (EDICA), is responsible for the establishment of the ENAL, including development of its collection, hiring of a staff that will eventually number more than 80 trained information and computer specialists, and overseeing the construction and completion of the ENAL building, scheduled to open in late 1991.

To assist her in planning for the ENAL, Eng. Abdel-Hady has enlisted the support of key staff at the National Agricultural Library. Funded by the United States Agency for International Development, Ms. Pamela Andre, Associate Director for Automation, NAL, and Dr. Sarah Thomas, Associate Director for Technical Services, travelled to Cairo in September 1990 to consult with Eng. Abdel-Hady. Ms. Andre was charged with analysis of ENAL automation requirements, particularly with regard to the implementation of an integrated library system, and with recommendations relating to ENAL telecommunications needs and networking activities. Dr. Thomas focused on the areas of collection development and technical processing.

While in Cairo, Ms. Andre and Dr. Thomas met with several leaders in the Egyptian information and agricultural research communities. Among those with whom they had discussions were Prof. Dr. A. Momtaz, Director General of the National Agricultural Research Project, of which ENAL is one component; Director General of the National Library of Egypt; Adel Labib, Director General of the Arab Republic of Egypt Network and Telecommunications Office; and Ibrahim Zaki Ibrahim, EDICA Director. Andre and Thomas also toured the library of the American University of Cairo, met with William Tuchrello and staff of the Library of Congress Cairo Field Office, and visited with Franklin Lee, Agricultural Counselor in the U.S. Embassy.

On September 20, Thomas and Andre were the featured speakers in the Seminar on Perspectives of Technology Transfer for Agricultural Information Systems to which administrators, scientists, and information specialists from the Ministry of Agriculture had been invited. Eng. Abdel-Hady outlined the proposed services of the ENAL for participants, after which Thomas presented an overview of NAL, and Andre updated attendees on applications of new technologies at NAL. Dr. Yousef Wally, Minister of Agriculture, spoke at length to the group on his aspirations for the ENAL, and his strong support of information technology, especially the potential of expert systems for advancing agriculture in Egypt.

Following their return to the United States, Andre and Thomas prepared reports with recommendations for consideration by Eng. Abdel-Hady. From October 23 to November 14, Eng. Abdel-Hady was in the United States to confer with Joseph Howard, NAL's Director, and other NAL management; to review the consultants'



photos courtesy of P. Andre

(L-R) Dr. Ahmed Momtaz, Director General of the National Agricultural Research Project of Egypt; Pamela Andre, Associate Director for Automation, NAL; Eng. Ragaa Abdel-Hady, Director General of the Egyptian National Agricultural Library; and Dr. Sarah E. Thomas, Associate Director for Technical Services, NAL, meet at the research center in Cairo to discuss information services supporting research.

reports; and to attend the first United States Agricultural Information Network Program Meeting at the University of Illinois in Urbana, Illinois. As a result



Pamela Andre speaks at the Seminar on Perspectives of Technology Transfer for Agricultural Information Systems at the Ministry of Agriculture in Cairo; Sarah Thomas was also a speaker at this seminar.



photo: S. Thomas

At the Library of the American University of Cairo, Pamela Andre and Ragaa Abdel-Hady share a moment of laughter with Jaymie Spenser, Librarian.

of her discussions at NAL, she has requested additional assistance from NAL in preparing for the opening of the Egyptian National Agricultural Library. The coming months and years promise continued fruitful collaboration as the two national agricultural libraries explore cooperation in collection development, document delivery, and new technologies.

photo courtesy of P. Andre

Pamela Andre at one of several mosques in Cairo which she and Sarah Thomas visited during their free time for sight seeing.



photo courtesy S. Thomas

Sarah Thomas with the Sphinx and Pyramids at Giza which she and Pam Andre visited on a weekend tour.

photo: S. Thomas

Experimental fields of the Egyptian Agricultural Research Center with a view of the skyline of the city of Cairo beyond.



Black History Month at NAL Features Exhibit on George Washington Carver

Through the end of February and possibly into March, the National Agricultural Library features an exhibit on George Washington Carver in the Library lobby. The exhibit consists of photographs of Carver and his work, recipes he created, and some of his publications.



(Above) **Agriculture Exhibit, Tuskegee Institute, 1906.** Carver worked with many different crops including cotton, golden-rods, oats, fodder, sweet potatoes, and tomatoes. He is most noted for his work with the peanut.



(Left) **George Washington Carver and Secretary of Agriculture, Henry A. Wallace.** Carver and Wallace first met at the Iowa State Agricultural and Mechanical College at Ames when Wallace was still a boy. It was Carver who interested Wallace in the mysteries of plant life, an experience which Wallace recalled with pleasure and gratitude. Wallace went on to become Vice President of the United States.

Among the photographs in the exhibit are the three shown here and one on the last page of this issue of *ALIN*.

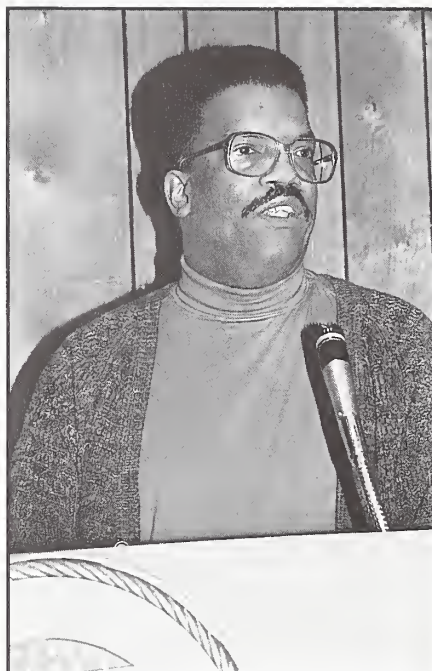
The photographs were obtained from the Carver National Monument in Diamond, Missouri. The exhibit was assembled by Tanya Tanner, Special Emphasis Programs Manager for Black Programs, and Technical Information Specialist in NAL's Indexing Branch. —JS.

(Right) **Cooking Class at Tuskegee Institute, circa 1902.** Many of Carver's recipes were tested in cooking classes at Tuskegee Institute.





Keith Russell, Associate Director for Public Services, NAL, welcomed NAL and Agricultural Research Service staff attending the "Images of Influence" program.



Vincent Parker of NAL's Acquisitions and Serials Branch gave the "Introduction" to the program and read from the life and writings of **Elijah Muhammed**.

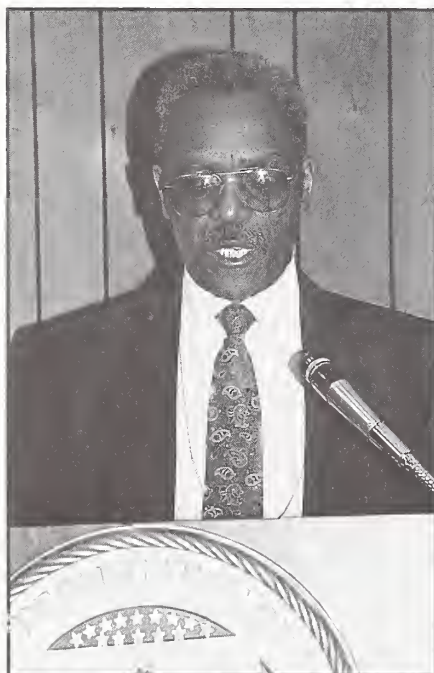


Tanya Tanner of NAL's Indexing Branch and Special Emphasis Manager for Black Programs, read from the poetry and other writings of **Mary McLeod Bethune**, and was M.C.

"Images of Influence" – Black History Month

As part of the joint National Agricultural Library and Agricultural Research Service observance of Black History Month and in commemoration of Martin Luther King's Birthday, a program of readings from the writings, speeches,

and biographies of several persons of historical significance in black heritage was held at the Library on January 23, 1991. This was a part of an on-going series of events scheduled during January and February 1991, and supplemented by ex-



Alton Fleming, Plant Physiologist, Natural Sciences Institute, ARS, and member of the BARC Special Emphasis Programs Committee, read **Mohandas Gandhi**.



Vallie Bray, Biological Lab Technician, Plant Sciences Institute, Insect Biocontrol Lab, ARS, and BARC Special Emphasis Programs Co-Manager, read **Ida B. Wells-Barnett**.



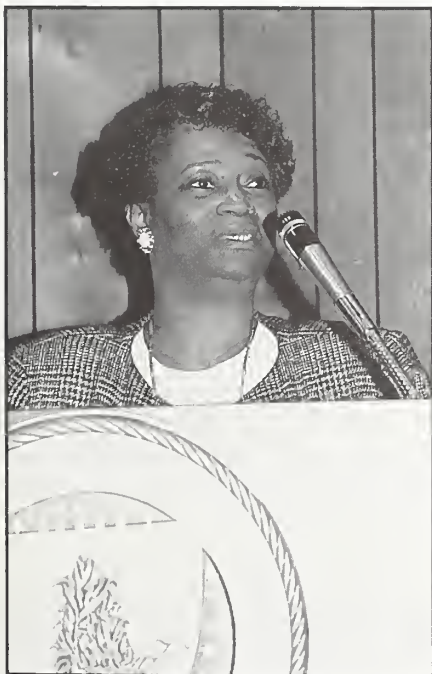
Pattsy Jackson, Plant Physiologist, Soybean and Alfalfa Research Lab, Plant Sciences Institute, ARS, read **Rosa Parks**.



Paulette Roseboro, Contract Specialist, ARS, read **Winnie Mandela**.

Program at NAL

hibits in the NAL lobby. Besides the Carver exhibit, another features blacks on U. S. postage stamps and related historical information.



Alice G. Jones, Secretary, Natural Resources Institute, ARS, read **Nelson Mandela**.

photos: J. Swab

Eleanor Roosevelt H.S. Senior Science Students Visit NAL



Recently the senior science students from Eleanor Roosevelt High School in nearby Greenbelt, Maryland visited NAL to learn about the Library's research resources, databases, and new technology applications. (Top) Susan Fugate, Head, Educational

Programs Section, Reference and User Services Branch, NAL, welcomes the students and begins the orientation program in the NAL lobby. (Center) Bob Anderson (on left) provides AGRICOLA and new technology demonstrations. (Bottom) Dr. Beth Norden, the students' teacher, discusses the morning's agenda with Susan Fugate.



photos: J. Swab



New Serials Received at NAL

Agricultural Economics Report. Nicosia, Cyprus: Agricultural Research Institute, Ministry of Agriculture and Natural Resources. No. 1- [c1973]-

HD2057.A12

Annual Report. Bikaner: National Research Centre on Camel. Annual. 1985-

SF401.C2A5

Annual Report: Presented to the State Water Control Board / State Water Plan Advisory Committee. [Richmond, VA?]: The Committee. Annual. 1st (Nov. 1984)-

TC424.V8V8

Annual Report / Southwest Foundation for Biomedical Research. San Antonio: The Foundation. Annual. 1983-

R11.S8

Annual Report for Year Ending ... / State of Wisconsin, Board of Commissioners of Public Lands. Madison, WI: The Board. Annual. July 1, 1980 to June 30, 1981-

HD243.W6W6

Back Journal. Alfeld, Leine [Germany]: Gildefachverlag. Monthly. 1 (Jan. 1990)-

TX761.B3

Beihefte zur Sydowia. Horn, N.-Ö., Austria: F. Berger. Irregular. 1.- [c1957]-

450 Sy22

Buletin perikanan / Jabatan Perikanan, Kementerian Pertanian Malaysia. Kuala Lumpur: Jabatan Percetakan Negara. Irregular. No. 30- [c1985]-

SH307.M32F5

Bulletin of Fishery Survey of India. Bombay: The Survey. Irregular. No. 12- [c1987]-

SH299.B85

Coex. Santiago de Chile: Organización de las Naciones Unidas para la Agricultura y la Alimentación, Oficina Regional para América Latina. Irregular. 1- [c1983]-

HD9014.L3C63

An Egg Economics Update / Cooperative Extension, University of California. Riverside, CA: Cooperative Extension, University of California. Irregular. No. 1 (Apr. 6, 1983)-

HD9284.U53C2

Etudes et recherches sur les systèmes agraires et le

développement. Versailles: INRA Publications. Irregular. 10- [c1987]-
S5.E85

European Research Centres. Harlow, Essex, UK: Longman; Detroit, MI: Distributed exclusively in the USA and Canada by Gale Research Co. Irregular. 5th ed.- [c1982]-

Q180.E8E8

Fruit Crops Fact Sheet. Gainesville, FL: University of Florida, Agricultural Extension Service. No. 1- [c1967]-

SB354.F693

Growers' Review Quarterly. Chicago, IL: Florists' Pub. Co. Quarterly. Vol. 1, no. 1 (spring 1986)-

SB414.6.G7

Imports by Countries of Origin of Field Seeds = Importations de semences des champs par pays d'origine. [Ottawa?]: Agriculture Canada, Plant Health and Plant Products Directorate, Seed Division. Monthly. Aug 1987-

HD9019.S432C2

Indian Journal of Plant Pathology. Lucknow, India: Association of Plant Pathologists of India. Semiannual. Vol. 1, no. 1 (June 1983)-

SB599.I472

InforMat: tidsskrift fra Matforsk. Ås: Norsk institutt for næringsmiddel forskning. Five or 6 no. a year. Vol. 1, nr. 1 (1988)-

TX341.N6

Journal of Field Ornithology. New Ipswich: Northeastern Bird-Banding Association. Quarterly. Vol. 51, no. 1 (winter 1980)-

413.8 B534

Journal of the IES. Mount Prospect, IL: IES. Bimonthly. Vol. 33, no. 1 (Jan./Feb. 1990)-

TA1J6

Kuo li Tai-wan ta hsüeh nung hsüen yüan yen chiu pao kao = Memoirs of the Faculty of Agriculture, National Taiwan University. Taipei, China: Kuo li Taiwan ta hsüeh nung hsüeh yüan. Ti 1 chüan, ti 1 hao (min kuo 35 nien 12 yüen [Dec. 1946])-

107 T13

Newsletter / ACLS. New York, NY: American Council of Learned Societies. Quarterly. 2nd ser., v. 1, no. 1 (summer 1987)-

AS30.N48

Notulae Naturae of the Academy of Natural Sciences of Philadelphia. [Philadelphia: The Academy]. no. 1- [c1939]-

500 P53No

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502 St62

Rapport / Sveriges lantbruksuniversitet, Institutionen för skogsekonomi = Report / Swedish University of Agricultural Sciences, Department of Forest Economics. Stockholm: Institutionen. Irregular. 25- [c1978]-
SD393.R37

Report of the State Auditor. [Augusta? ME]: The State Auditor. Annual. 26th (1944/1945)-
HJ11.M22M34

Zeszyty naukowe drobiarstwa = Notes on Poultry Science. Prace habilitacyjne / Centralny O'srodek Badawczo-Rozwojowy Drobiarstwa w Poznaniu. Poznan: O'srodek. Zesz. 1- [c1988]-
SF481.Z42



New Bibliographies

The bibliographies in the *Quick Bibliography* series are primarily computerized online as batch bibliographies emanating from searches performed by the NAL Public Services Division Staff in response to customer requests. Searches are selected for inclusion based on the currency of the topic, interest among clientele, and probable value to a larger audience. Since October 1988, all *QB*'s include search strategies. Unless otherwise specified, citations are from AGRICOLA.

The other bibliographic series, including *Special Reference Briefs*, have been researched and produced to meet special needs of clientele of the Library and its Information Centers. Revisions or updates will be announced when produced. Only one copy of a requested title will be sent; however, requesters may make copies. To request a copy of a *Quick Bibliography*, *Special Reference Brief*, or other bibliographic work, circle the desired title(s) below and send your request with a self-addressed label to:

Reference Branch, Room 111
National Agricultural Library
10301 Baltimore Boulevard
Beltsville, MD 20705-2351

Quick Bibliographies

Q.B.—91-35. Freshwater Shrimp and Prawns, January 1979-August 1990. 163 citations; languages: none excluded. Prepared by Deborah T. Hanfman. Aquaculture Information Center. December 1990. Updates QB 90-04.

Q.B.—91-36. Gasahol, January 1983-September 1990. 165 citations; languages: none excluded. Prepared by Shel-

don Cheney. Reference and User Services Branch. December 1990. Updates QB 89-101.

Q.B.—91-37. Wind Energy for Agriculture, January 1984-September 1990. 176 citations; languages: English only. Prepared by Susan Chapman. Reference and User Services Branch. December 1990. Updates QB 84-16.

Q.B.—91-38. Single Cell Protein, January 1984-September 1990. 129 citations; languages: none excluded. Prepared by Jean A. Larson. [For] Biotechnology Information Center. December 1990. Updates QB 86-53.

Q.B.—91-39. Biogas and Alcohols from Biomass, January 1986-September 1990. 813 citations; languages: none excluded. Prepared by Jean A. Larson. [For] Biotechnology Information Center. December 1990. Updates QB 88-23.

Q.B.—91-40. Population Migration in Rural America, January 1979-September 1990. 181 citations; languages: English only. Prepared by Patricia La Caille John. Rural Information Center. January 1991. Updates QB 89-40.

Q.B.—91-41. Grafting Plants, January 1979-October 1990. 250 citations; languages: English only. Prepared by Carol Kopolow. Reference and User Services Branch. January 1991.

Special Reference Briefs

SRB—91-05. Bovine Spongiform Encephalopathy. Languages: none excluded. Prepared by Janice C. Swanson. Animal Welfare Information Center. December 1990.

AWIC Series

AWIC—4. Animal Welfare Legislation: Bills and Public Laws, 1990. Annual Report. Prepared by Karen J. Clingerman. Animal Welfare Information Center. January 1991. Updates AWIC #4 (Preliminary Report).

Miscellaneous

Audiovisuals in the NAL Collection Relating to Alternative Farming Systems. Prepared by Jane Potter Gates. Alternative Farming Systems Information Center. December 1990.

Newsletters Pertaining to Agricultural Biotechnology. Prepared by Robert D. Warmbrodt and Virginia Stone. Biotechnology Information Center. January 1991.

Food and Nutrition Information Center Microcomputer Software Collection. Prepared by Natalie Updegrave. Food and Nutrition Information Center. December 1990. Updates June 1990 list.

National Agricultural Library. Bibliographic Series. Current Titles Listing. No. 2. Public Services Division. December 1990.



Publications Exchange

Surplus Publications

The National Agricultural Library will make available the following surplus publications to any interested organization that regularly sends free publications to NAL, including most Federal, land-grant, and agricultural research institutions as well as many others. Foreign institutions will need to provide a U.S. mailing address or make other special arrangements with U.S. sources for shipment of material. Listed titles may be requested up to six months following announcement.

If interested, please enclose an addressed label with your request and write to:

National Agricultural Library
Attn: Gift and Exchange/RF, Room 002
10301 Baltimore Boulevard
Beltsville, MD 20705-2351

Or call Ruth Finnblade, (301) 344-4061.

Ag and Food. Vol. 28, 1980.

Agricultural Research. 1953-75.

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Crop Science. Vol. 26-28, 1986-88.

Current Advances in Plant Science. Vol. 15-16, 1983-84.

Farm Bill Proposal of the Administration. February, 1990.

Horticulture. 1965-77, 1987-89.

Journal of Animal Science. Vol. 56-64, 1983-87.

Journal of Dairy Research. Vol. 55-56, 1988-89.

Journal of Farm Economics. Vol. 38-49, 1956-67.



Agriculture Datebook

February 25-27: World Perspectives Seminar. Theme: "U.S. Agriculture: Global Challenges in the 1990's." Washington, DC; Grand Hotel. Contact: WPI, 202-785-3345.

February 25-March 1: Society of Toxicology. Dallas, TX. Contact: 202-293-5935.

February 28: Western States Meat Association's Industry Issues Conference. Reno, NV. Contact: 415-763-1533.

March 1-3: National Association of Meat Purveyors 34th Management Conference. Arlington, VA; Hyatt Regency Crystal City. Contact: NAMP, 703-827-5754.

March 2-3: International Association of Agribusiness Inaugural Symposium. Boston, MA. Contact: 202-786-3300.

March 4: American Association of Crop Insurers Convention. Charleston, SC. Contact: 202-447-4581.

March 4-7: National Environmental Communicators Conference. Kansas City, MO; Allis Plaza Hotel. Contact: 913-551-7003.

March 4-8: Rural Development Training Institute. New Orleans, LA. Contact: 202-472-1839.

March 7-8: "Saving the Land that Feeds America" Conference. Washington, DC. Contact: American Farmland Trust, 202-659-5170.

March 9: National Food Processors Association Meeting. Chicago, IL. Contact: 202-639-5900.

March 10-12: Hardwoods Research Council. Starkville, MS. Contact: 202-477-7491.

March 10-13: Western Rural Telephone Association Annual Meeting. Santa Barbara, CA; Fess Parker's Red Lion Inn. Contact: 202-382-9540.

March 10-14: Symposium on Plant Breeding in the 1990s. Raleigh, NC. Contact: Dr. H. T. Stalker, Department of Crop Science, Box 7629, North Carolina State University, Raleigh, NC 27695. 919-737-3281. FAX: 919-737-7959.

March 11-12: National Agricultural Statistics Service Data Users Meeting. Memphis, TN. Contact: 202-786-3300.

March 11-15: Rural Development Training Institute. San Diego, CA. Contact: 202-472-1839.

March 12-15: Biodiversity in the Rocky Mountains. Ft. Collins, CO. Contact: Biodiversity Symposium, Office of Conference Services, Colorado State University, Ft. Collins, CO 80523. Contact: 303-491-7501, FAX: 303-491-0667.

March 16-22: International Conference on Food and Agriculture Systems. Hainan, China. Contact: 202-447-5923.

March 18: National Association of Counties Spring Legislative Conference, Workshop on Rural Development. Washington, DC; Washington Hilton Hotel. Contact: 202-

472-1839.

March 18-27: Codex Conference on Food Standards. Rome, Italy. Contact: 202-447-5714.

March 19: Annual Agricultural Outlook Conference. Little Rock, AR. Contact: 202-447-6030.

March 23: National Wildlife Federation Annual Meeting. Memphis, TN. Contact: 202-477-7491.

March 24-26: Western Forest Industries Association. Portland, OR. Contact: 202-477-7491.

March 24-27: NRECA Annual Director's Conference. Nashville, TN; Opryland Hotel. Contact: 202-382-9540.

March 25-27: North American Wildlife and Natural Resources Conference. Alberta, Canada. Contact: 202-447-6661.

March 26: Northeast Dairy Conference. Albany, NY. Contact: 202-653-6976.

March 27-28: Public Voice's 14th Annual National Food Policy Conference. Washington, DC; Hyatt Regency Capitol Hill. Contact: Carol Marek, 202-659-5930.

March 27-30: National Science Teachers Association (NSTA). Houston, TX. Contact: 202-328-5800.

April 3-5: National Agri-Marketing Association Conference. New Orleans, LA; Marriott. Contact: NAMA, 913-492-0220.

April 4: Distillers Feed Research Council's 46th Distillers Feed Conference. Syracuse, NY; Sheraton University Inn & Conference Center. Contact: DFRC, P.O. Box 23097, Des Moines, IA 50322.

April 4-5: NIH Regional Workshop on Implementation of the Public Health Service Policy on Humane Care and use of Laboratory Animals. Sponsor: University of South Carolina. Contact: 803-792-3625.

April 7: Forty-Fifth Williamsburg Garden Symposium. Williamsburg, VA. Contact: 202-447-5923.

April 9-10: University of Florida Dairy Production Conference. Gainesville, FL; Gainesville Hilton. Contact: Dairy Science Dept., U. of Fla., Gainesville, FL 32611.

April 10-12: Agricultural Communicators in Education (ACE) Southern Region Meeting. Lexington, KY. Contact: Haven Miller, 606-257-3784.

April 10-13: Livestock Japan '91. Tokyo, Japan; Harumi Hall C. Contact: Larry Singleton, Expo Group Inc., 220 Felspar Ridge, Peachtree City, GA 30269.

April 11-12, 15-19: 6th Session of the Working Group of the FAO Commission on Plant Genetic Resources and the 4th Session of the FAO Commission on Plant Genetic Resources, respectively. Rome, Italy. Contact: J. T. Esquinas-Alcazar, Sec'y., FAO Commission. Via Delle Terme di Caracalla, 00100 Rome, Italy. Telephone: 01-57971, FAX: 01-679-9563.

April 15: National Food Processors Association's "Food Microbiology 91." Arlington, VA. Contact: 202-639-5983.

April 17-20: National Meat Cannery Association Annual Convention. Sea Island, GA. Contact: 703-841-2424.

April 21-25: Federation of American Societies for Experimental Biology. Atlanta, GA.

April 21-27: National Science and Technology Week. Contact: National Science Foundation, 202-357-9498.

April 22-23: International Business Strategy—New Directions for Cooperatives Meeting. Oakland, CA. Contact: 202-653-6976.

April 24-27: 40th Western Poultry Disease Conference. Acapulco, Mexico; Hotel Acapulco Plaza. Contact: Richard Yamamoto, U. of Calif., Davis, CA 95616.

April 28-May 1: Penn State Extension Technology Conference. Hershey, PA. Contact: Computer Services, 814-863-3449.

April 30-May 2: National Association of State Departments of Agriculture Food Exposition. Las Vegas, NV; Convention Center. Contact: NASDA, 202-628-1566.

(McCarthy, from p. 11, col. 2)

Before joining the USDA laboratory staff at Peoria, Dr. McCarthy was a post-doctoral research associate at the University of Nebraska, where her research was concerned with light and nutritional regulation of gene expression in the alga *Euglena*. In 1981 Dr. McCarthy earned her Ph.D in plant physiology at the University of Illinois, Champaign/Urbana, where her research was in chlorophyll metabolism. She earned her B.S. in botany at the University of Michigan, Ann Arbor.

Originally from Detroit, Dr. McCarthy is in the Washington, D.C., area for the first time, and has been enjoying sight-seeing in her free time. Among her other interests are ice-dancing (which this winter has not accommodated), hand-making paper, and reading. When asked about her experiences getting started at NAL, Dr. McCarthy responded, "The really interesting and exciting aspect to my job is the exceptional opportunity that I have been given to work with so many people throughout the library."

—Joseph N. Swab

(Richardson, from p. 11, col. 2.)

after 12 years in government contracting. She left a position at Nyma, Inc., of Greenbelt, Maryland, where she worked as a data analyst concerned with collecting survey data from electrical utilities for the Department of Energy (DOE). Among earlier contract positions were clearinghouse project manager at the Minority Energy Information Center, which provided information to Congress, government agencies, manufacturers, consumers, students, etc., for DOE at the Maxima Corp., Rockville, Maryland; project manager of an information center at Sterling Software, Rockville, for the Defense Intelligence Agency; reference librarian at NASA headquarters' science and technology library; information specialist/project operations manager at the Fish & Wildlife Reference Service, a contract service for the Department of the Interior; senior information specialist for systems design and analysis including design and initiation of a database for New Animal Drug Applications for FDA; and senior information specialist for an automated tracking system for the Office of Safeguards and Security at DOE.

Ms. Richardson is the mother of a 9-year-old son, Christopher, an honor-roll student of whom she is very proud. Her leisure interests include crafts (making cushioned photo albums and frames), sewing, and reading. When asked about her initial impressions of working at NAL, she answered, "Everyone has been warm, friendly, and extremely helpful to me as a new kid on the block."

—Joseph N. Swab

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[(301)-344-3937]



(Above) Participants in the Unified Agricultural Thesaurus meeting discussed on pp. 12-14. For full names and organizations see list on page 14. (L-R) Pam Andre (NAL), Pieter Wiersma, Joseph Howard (NAL), Eckehard König, Stella Clarke, Jan van der Burg, Eberhard Stage, Monique Bonnichon, Shirley Edwards (NAL), Gary McCone (NAL), Sarah Thomas (NAL), Martha Hood (NAL), Keith Russell (NAL), and Maria Pisa (NAL).

(Below) One of NAL's Black History Month exhibits features the work of George Washington Carver, who is seen here with some of the nearly 300 valuable uses for the peanut which he discovered or developed. For more about the exhibit see page 17 of this issue of *ALIN*, and see pages 18-19 for more on the NAL and ARS Black History Month activities.